

Vermont Mental Health Performance Indicator Project

DDMHS, Weeks Building, 103 South Main Street, Waterbury, VT 05671-1601 (802-241-2638)

MEMORANDUM

TO: Vermont Mental Health Performance Indicator Project
Advisory Group and Interested Parties

FROM: John Pandiani and Monica Simon

DATE: May 23, 2003

RE: Arrests Before and After Adult Mental Health Outpatient Services

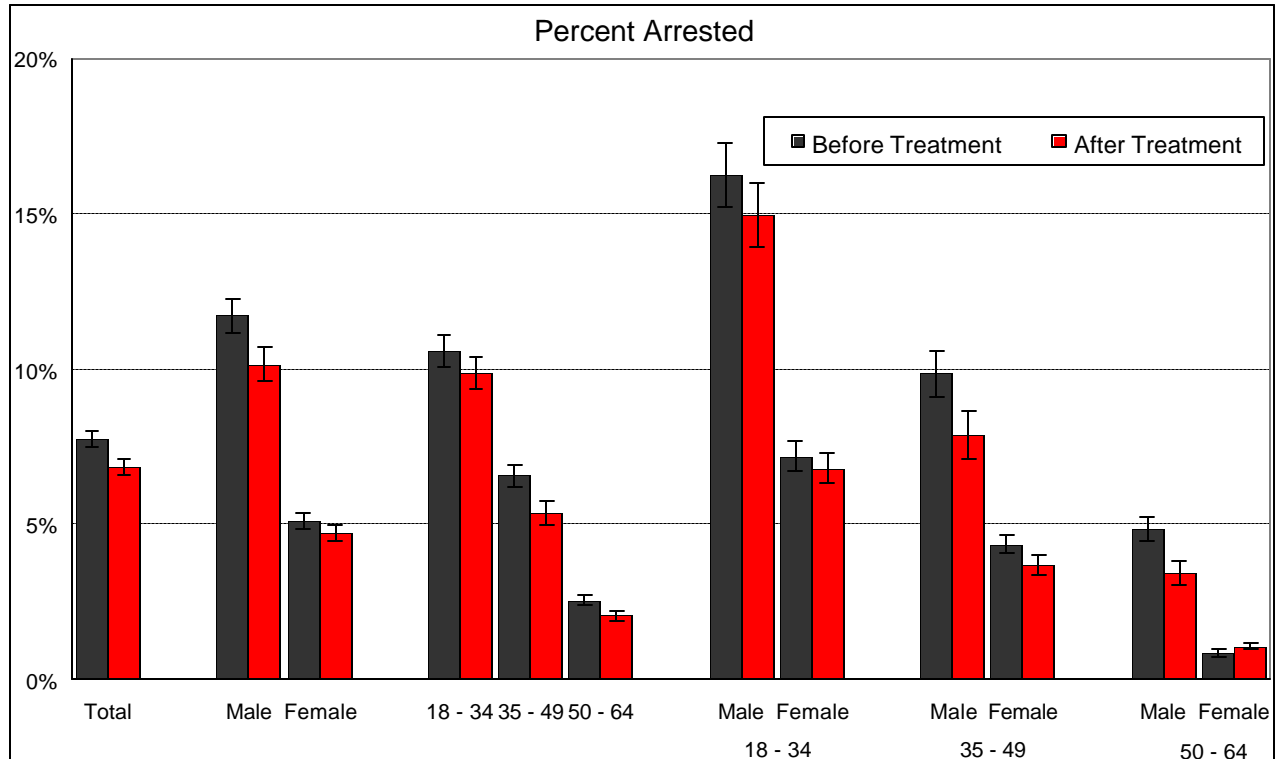
The attached graph and table compare three-year average arrest rates before and after treatment for people who were served by Adult Mental Health Outpatient programs in Vermont during FY1999 through FY2001. Results are presented for age and gender categories statewide, and for each of Vermont's ten community mental health service areas. This analysis replicates our earlier analysis of arrest rates before and after substance abuse treatment. A summary of these findings was published as a PIP on August 16, 2002 (<http://www.state.vt.us/dmh/Data/PIPs/2002/pip081602.pdf>).

Findings indicate that recipients of Adult Mental Health Outpatient services experienced a small but statistically significant decrease in arrest rates during the study period, from 7.7% during the year before the treatment year to 6.8% during the year after the treatment year. Statewide, the post treatment arrest rate was only 89% of the pre treatment rate. There were significant decreases for every age and gender group except for young adults (18-34 years of age). There were statistically significant decreases in arrest rates in five of the state's ten regions, and there was a statistically significant increase in arrest rate for the adult mental health program at the Clara Martin Center in Orange County. Compared to Substance Abuse programs, clients of Adult Mental Health Outpatient programs had substantially lower pre-treatment arrest rates and experienced a substantially smaller decrease in arrest rates.

Both of these analyses involved measuring caseload overlap between a behavioral healthcare data set and a criminal justice data set. The criminal justice data set used in both analyses was extracted from the statewide Incident Based Reporting System arrest database maintained by the Vermont Department of Public Safety. The substance abuse treatment database used in the earlier analysis was extracted from Vermont's federally mandated Treatment Episode Data Set (TEDS). The mental health treatment data used in this analysis was extracted from the Monthly Service Report data files submitted to Vermont's Department of Developmental and Mental Health Services by designated community mental health service providers. Because these data sets do not share unique person identifiers, Probabilistic Population Estimation was used to determine the number of people who appeared in both the arrest database and the mental health database.

We look forward to your questions, comments and suggestions for further analysis to pip@ddmhs.state.vt.us or 802-241-2638.

**Adult Mental Health Outpatient Clients
In Trouble with the Law Before and After Treatment
By Age and Gender, Vermont: FY1999 - FY2001**

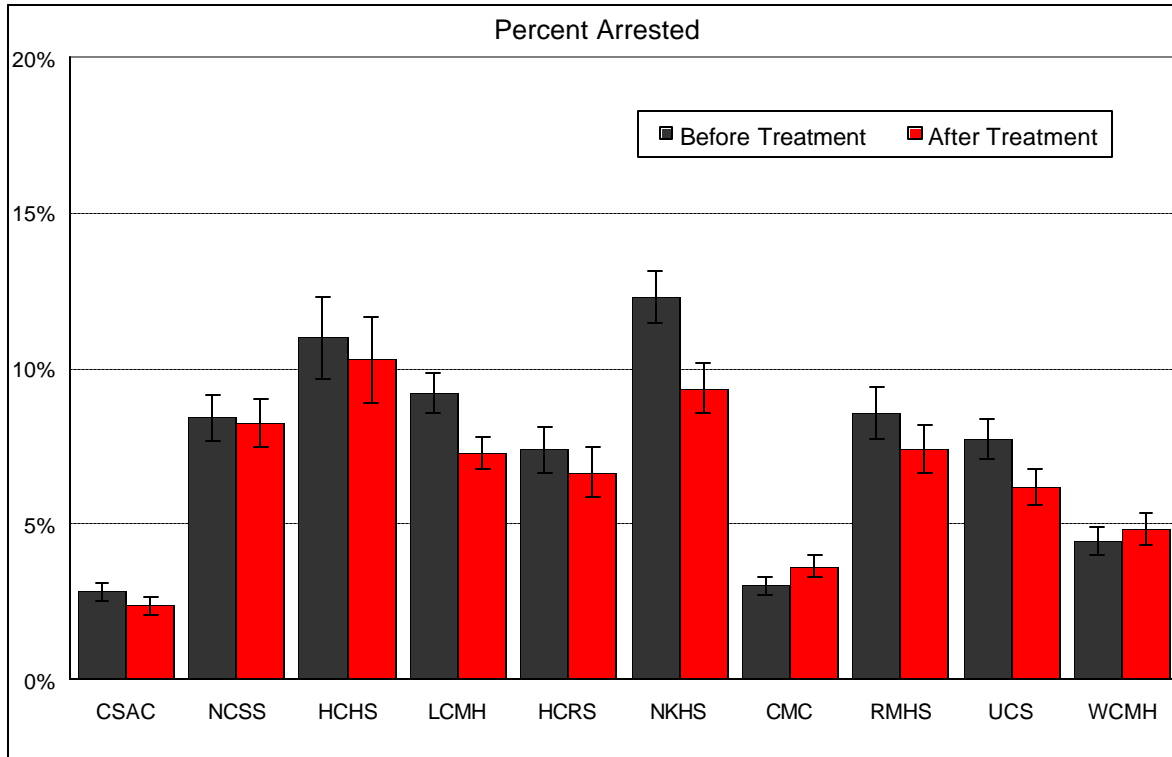


	Average Number Served	Percent Arrested		Performance Ratio
		Before Treatment	After Treatment	
Total	6,432 + 11	7.7% + 0.3%	6.8% + 0.3%	0.89 + 0.05 *
Male	2,537 + 6	11.7% + 0.5%	10.1% + 0.5%	0.86 + 0.06 *
Female	3,895 + 9	5.1% + 0.3%	4.7% + 0.3%	0.92 + 0.07 *
18 - 34	2,844 ± 8	10.6% ± 0.5%	9.9% ± 0.5%	0.93 ± 0.06
35 - 49	2,608 + 8	6.6% + 0.4%	5.4% + 0.4%	0.82 + 0.07 *
50 - 64	980 + 3	2.5% + 0.2%	2.1% + 0.2%	0.81 + 0.09 *
18 - 34 Male	1,072 ± 4	16.2% ± 1.0%	15.0% ± 1.0%	0.92 ± 0.09
Female	1,772 ± 7	7.2% ± 0.5%	6.8% ± 0.5%	0.95 ± 0.09
35 - 49 Male	1,048 + 4	9.8% + 0.7%	7.9% + 0.8%	0.80 + 0.10 *
Female	1,560 + 6	4.4% + 0.3%	3.7% + 0.3%	0.84 + 0.10 *
50 - 64 Male	417 + 2	4.8% + 0.4%	3.4% + 0.4%	0.71 + 0.10 *
Female	563 ± 3	0.9% ± 0.1%	1.1% ± 0.1%	1.22 ± 0.19 *

*Indicates difference is statistically significantly different at the 0.05 level of significance.

Analysis is based on data provided to DDMHS by community mental health centers and the Department of Public Safety. Because these databases do not share unique person identifiers, Probabilistic Population Estimation was used to determine the number of individuals shared across data sets (with 95% confidence intervals).

**Adult Mental Health Outpatient Clients
In Trouble with the Law Before and After Treatment
By Clinic, Vermont: FY1999 - FY2001**



	Average Number Served	Percent Arrested		Performance Ratio
		Before Treatment	After Treatment	
Total	6,432 ± 11	7.7% ± 0.3%	6.8% ± 0.3%	0.89 ± 0.05 *
CSAC	700 ± 4	2.8% ± 0.3%	2.3% ± 0.3%	0.84 ± 0.14 *
NCSS	746 ± 4	8.4% ± 0.7%	8.2% ± 0.7%	0.98 ± 0.12
HCHS	766 ± 4	11.0% ± 1.3%	10.3% ± 1.4%	0.93 ± 0.17
LCMH	283 ± 2	9.2% ± 0.6%	7.3% ± 0.5%	0.79 ± 0.08 *
HCRS	895 ± 5	7.4% ± 0.8%	6.7% ± 0.8%	0.90 ± 0.14
NKHS	702 ± 4	12.3% ± 0.8%	9.4% ± 0.8%	0.76 ± 0.08 *
CMC	259 ± 2	3.0% ± 0.3%	3.6% ± 0.4%	1.20 ± 0.17 *
RMHS	796 ± 4	8.6% ± 0.8%	7.4% ± 0.8%	0.86 ± 0.12 *
UCS	579 ± 3	7.7% ± 0.6%	6.1% ± 0.6%	0.79 ± 0.10 *
WCMH	707 ± 4	4.4% ± 0.4%	4.8% ± 0.5%	1.09 ± 0.16

*Indicates statistically significantly different at the 0.05 level of significance.

Analysis is based on data provided to DDMHS by community mental health centers and the Department of Public Safety. Because these databases do not share unique person identifiers, Probabilistic Population Estimation was used to determine the number of individuals shared across data sets (with 95% confidence intervals).